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EASTMAN KODAK COMPANY

ROCHESTER 4, N.Y.

PLEASE REPORT TO  
RESEARCH LABORATORIES

June 23, 1959

STATINTL

Jr.

STATINTL

Dear Mr. [REDACTED]

STATINTL

In reply to your letter of June 11, 1959, to Mr. R. G. [REDACTED] we are enclosing some of the data you requested on Kodak Plus-X Aerecon Film (Thin Base) and SO-221 and SO-243 Aerial Negative Films. These materials have Daylight Exposure Indexes of 64, 6 and approximately 1, respectively. The Plus-X Aerecon Film and SO-221 are thin acetate base materials, but SO-243 has a gray acetate support of normal thickness. Recommended development in D-19 for these three films is 8 minutes at 68°F.

How determined?  
MDR  
6 Jul 59

The enclosed data includes the following:

- 1) Characteristic curves of each film for development in D-19.
- 2) Sine wave response curves. <sup>① Considering "identicality" of 221 & 243</sup> why would anyone use 221? <sup>Grain & Gamma?</sup>
- 3) Maximum resolving power of each film at contrast ratios of 2:1 and 1.25:1. <sup>② What development?</sup>
- 4) Spectral sensitivity curves.
- 5) Granularity-density curves for Plus-X Aerecon and SO-221 films. <sup>What size aperture? n.a. of microscope? What development?</sup>

Curves of low contrast resolving power as a function of exposure are not available. The granularity-density data for SO-243 is being obtained. We shall forward this curve to you when our tests are completed.

The data enclosed represent average characteristics of these materials as measured by standard procedures in the Kodak Research Laboratories. Particular samples may exhibit

Kodak

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June 25, 1959

slight variations. Also, because of improvements which are made from time to time in all sensitized products, sometimes without announcement, these data may not describe the characteristics of similarly identified material manufactured in the future. When precise quantitative data are needed, therefore, measurements should be made under the actual conditions of the intended application.

Very truly yours,

STATINTL

Research Laboratories

[REDACTED] :bsl

Enc.

Under what conditions

### Maximum Resolving Powers

Film	Developer	Contrast Ratio			
		2/1	T	1,26/1	T
Plus-X Aerecon	D-19	.13 55	.38	107 30	.65
SO-221	D-19	.08 95	.24	05 60	.42
SO-243	D-19	.14 160	.43	106 90	.56

MDE  
1 JULY 1959

1.0

Granularity  
(D) versus net Density

.10

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Plus-X Aerecon

SO-221

.01

0.01

0.10

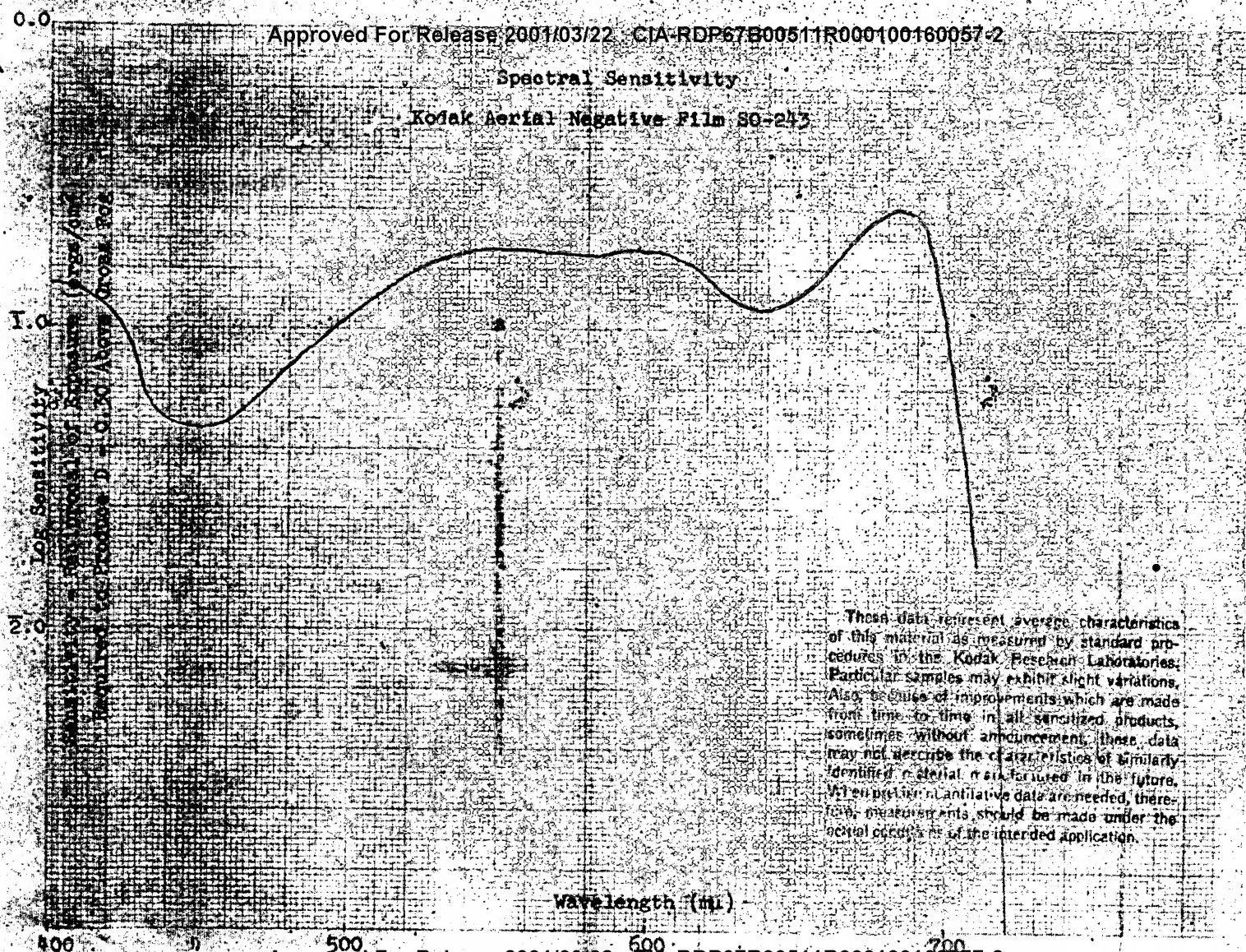
1.0

Net Density

10

# Spectral Sensitivity

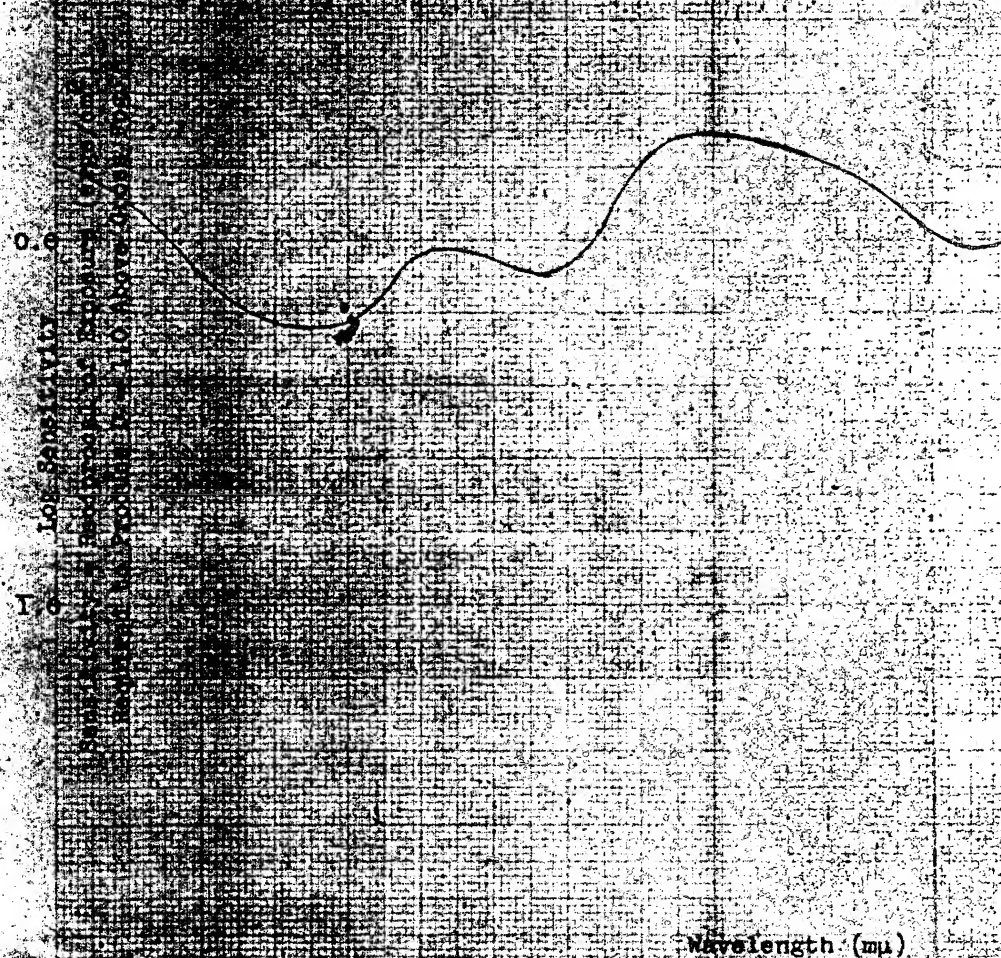
Kodak Aerial Negative Film SO-243



These data represent average characteristics of this material as measured by standard procedures in the Kodak Research Laboratories. Particular samples may exhibit slight variations. Also, because of improvements which are made from time to time in all sensitized products, sometimes without announcement, these data may not describe the characteristics of similarly identified material now or in the future. When precise qualitative data are needed, therefore, measurements should be made under the actual conditions of the intended application.



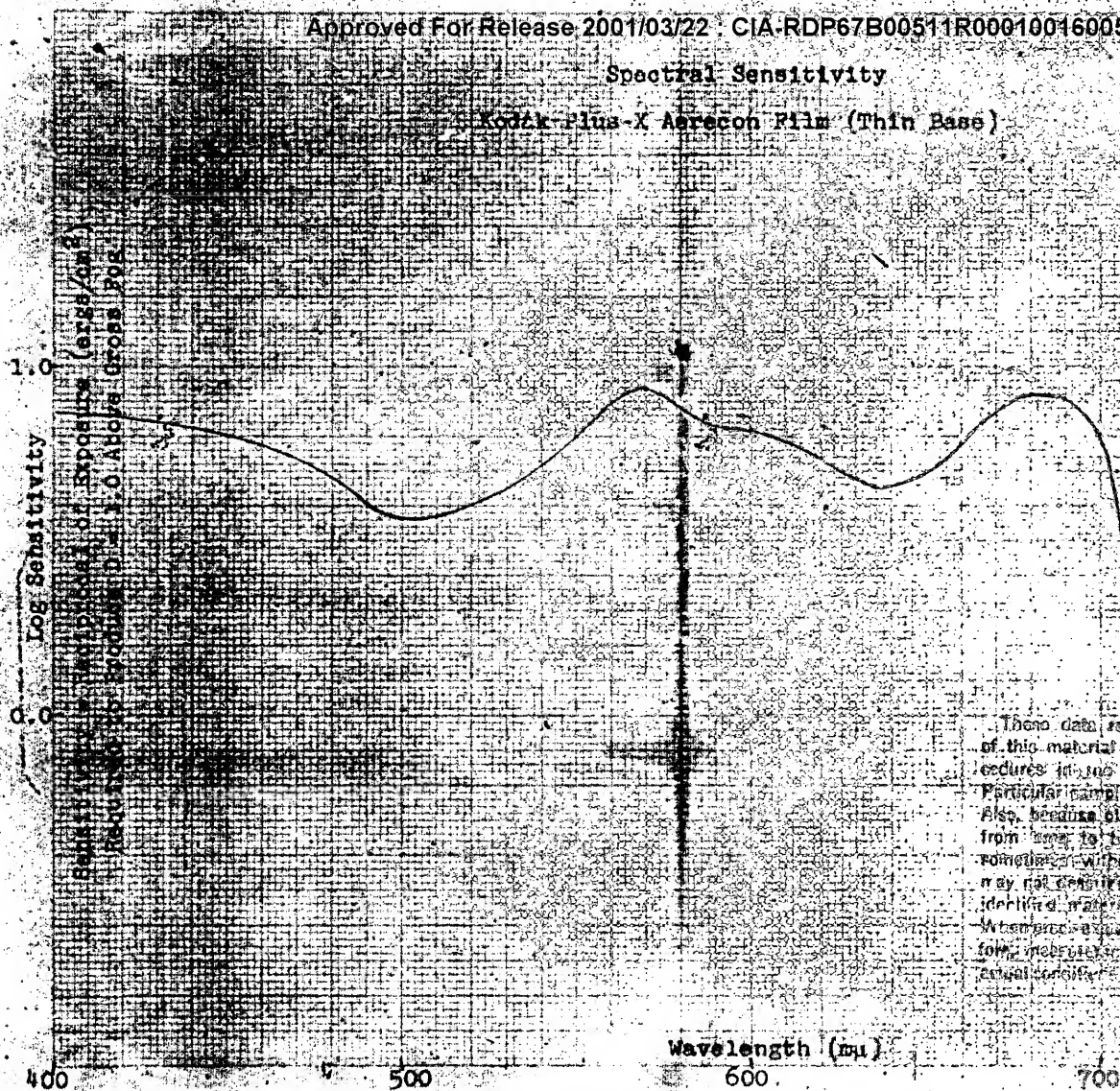
Spectral Sensitivity  
Kodak Aerial Negative Film SO-221



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# Spectral Sensitivity

Kodak Plus-X Aerecon Film (Thin Base)

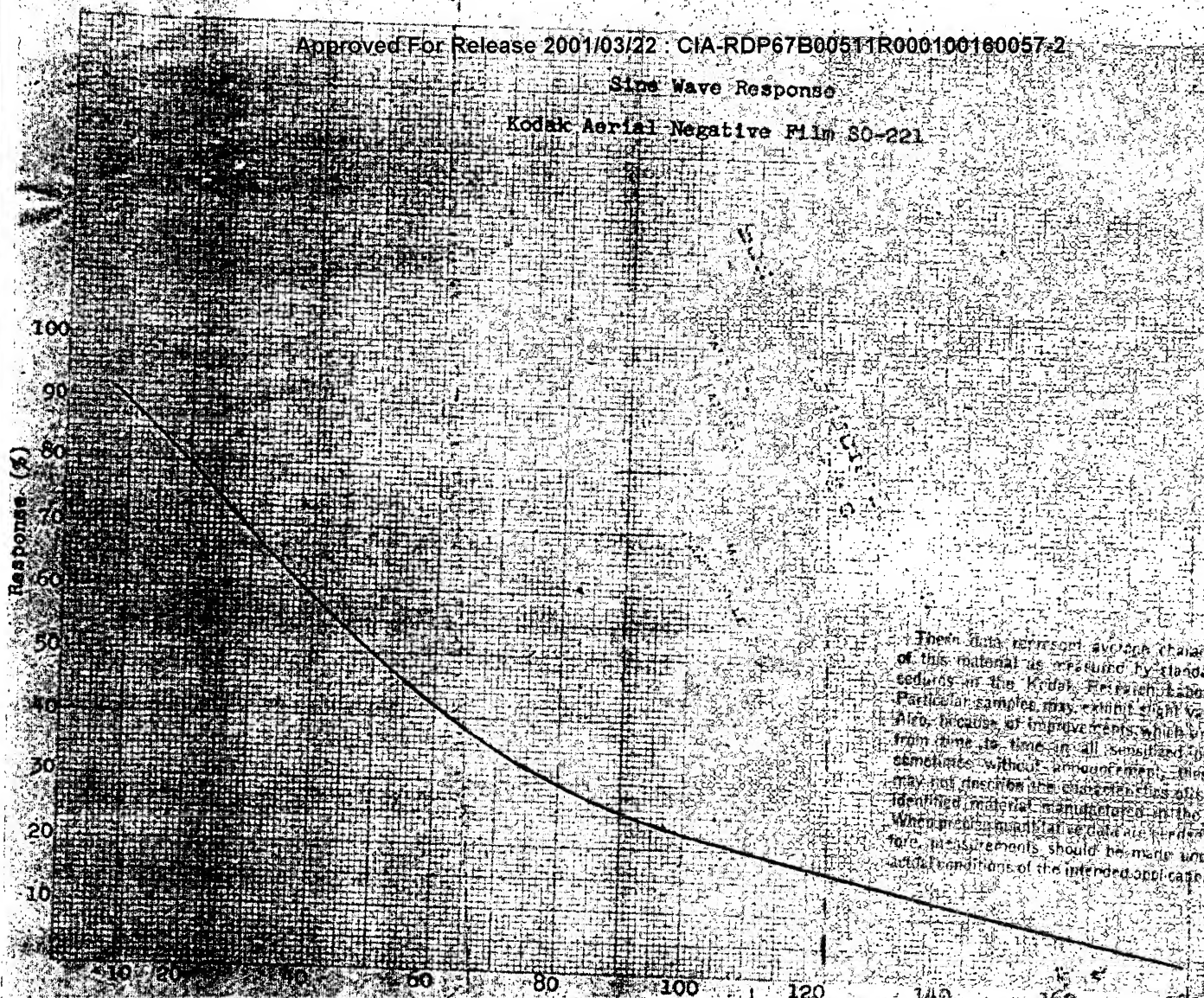


These data represent average characteristics of this material as measured by standard procedures for the Kodak Research Laboratories. Particular samples may exhibit slight variations. Also, because of improvements which are made from time to time in all sensitized products, sometimes without announcement, these data may not be representative of characteristics of similarly identified material manufactured in the future. When precise quantitative data are needed, therefore, measurements should be made under the actual conditions of the intended application.



Sine Wave Response

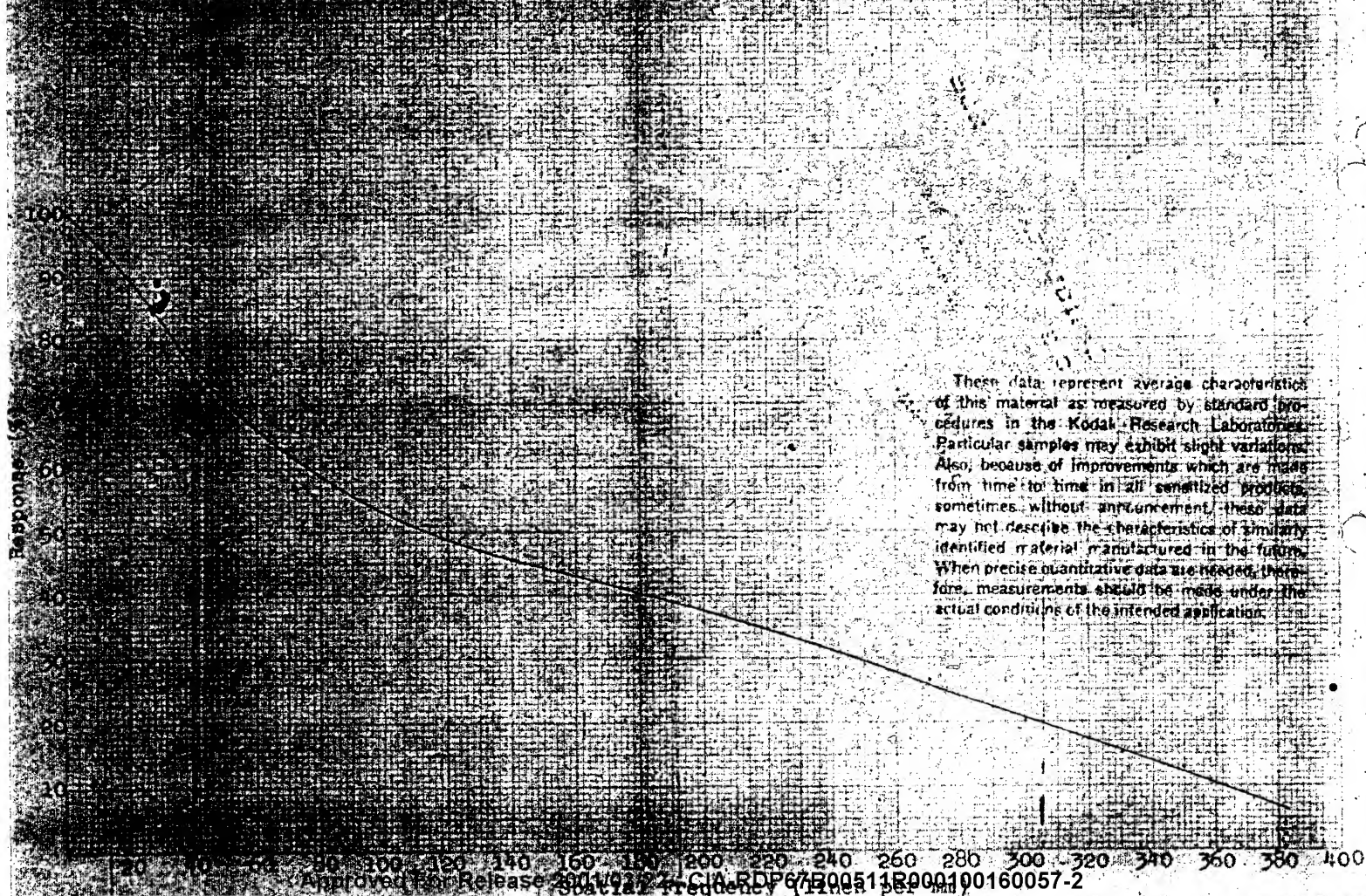
Kodak Aerial Negative Film 30-221



This data represents average characteristics of this material as measured by standard procedures in the Kodak Research Laboratories. Particular samples may exhibit slight variations. Also, because of improvements which are made from time to time in all similar products, coincidence without announcement, these data may not describe the characteristics of currently identified material manufactured in the future. When problem material is used, therefore, the above measurements should be made under the actual conditions of the intended application.

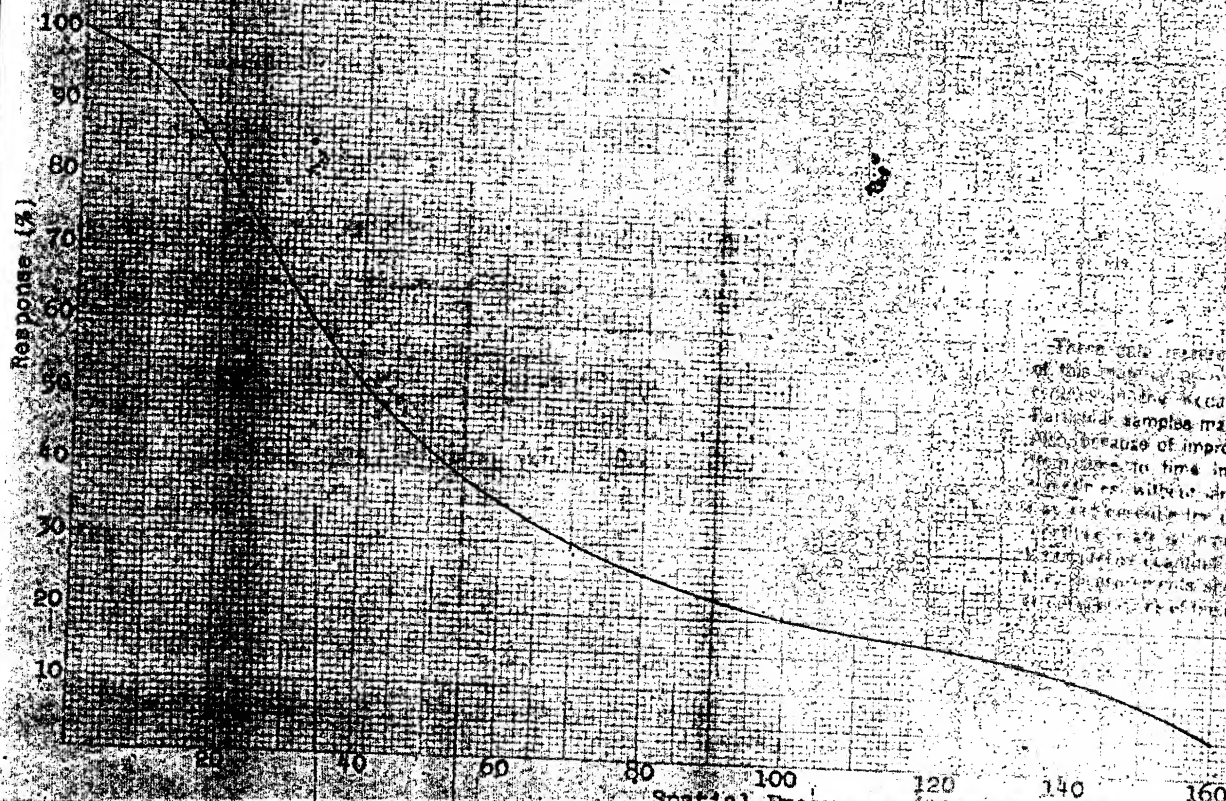
### Sine Wave Response

Kodak Asist Negative Film SO-243



# Sine Wave Response

Kodak Plus-X Resonon Film (Thin Base)



These data represent average characteristics of this material as measured by standard procedures in the Kodak Research Laboratories. Particular samples may exhibit slight variations. Because of improvements which are made from time to time in all sensitized products, there is, without announcement, the possibility of changes in the characteristics of similarly processed material. Therefore, data generated therefrom should be made under the conditions of the intended application.



Developed In D-19, 68°F

1985

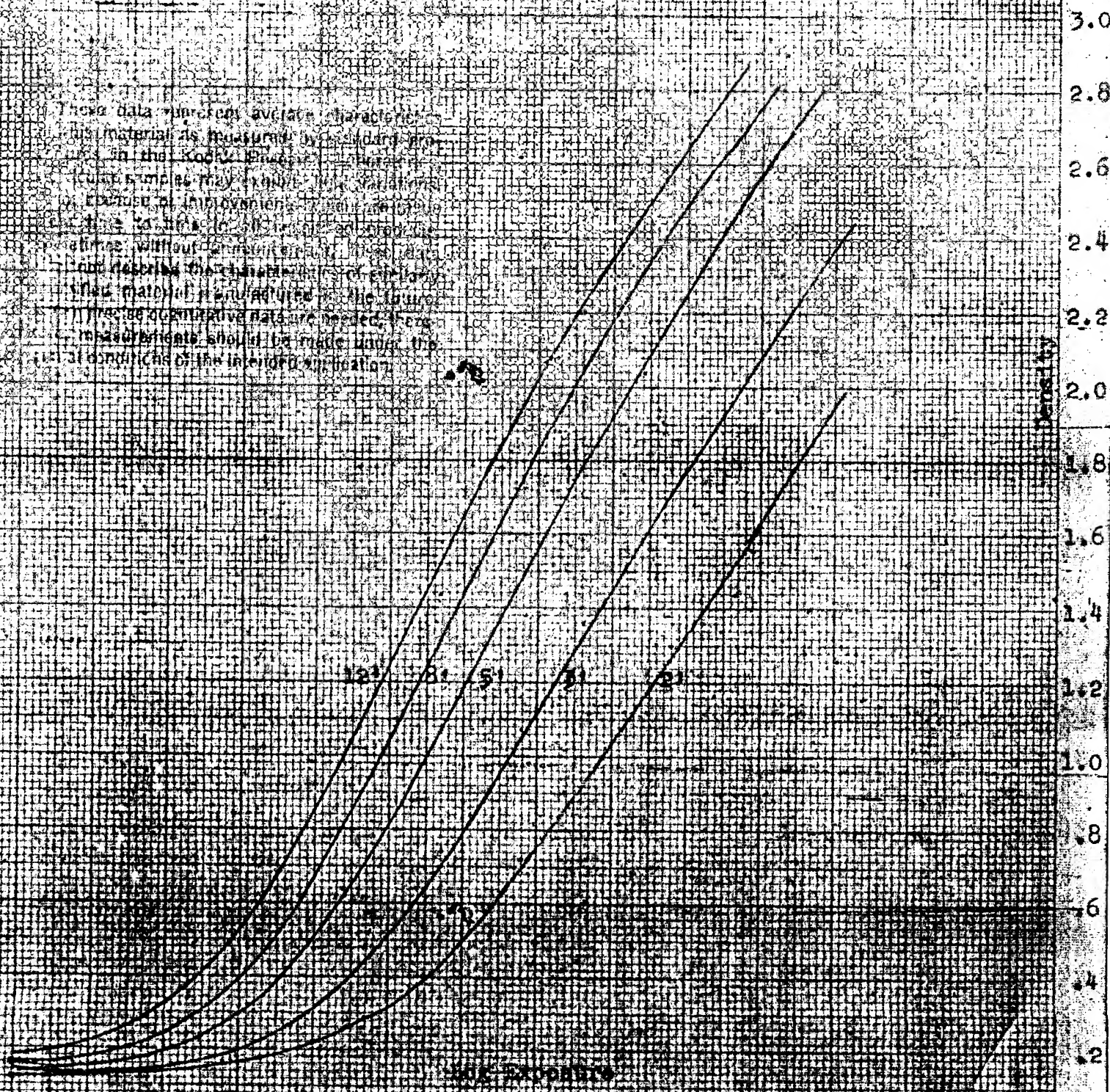
Approved For Release 2001/03/22 : CIA-RDP67B00591R000100160057-2



Exposed to Sunlight  
plus Wessman 212 filter

Developed in D-19, 68°F

These data represent average characteristics of material as measured by standard procedures in the Kodak process. Variations in results may occur due to variations in exposure or development. These data are intended to provide a general guide for the selection of exposure and development conditions without the necessity of making detailed measurements of the material. If precise quantitative data are needed, these measurements should be made under the actual conditions of the intended application.





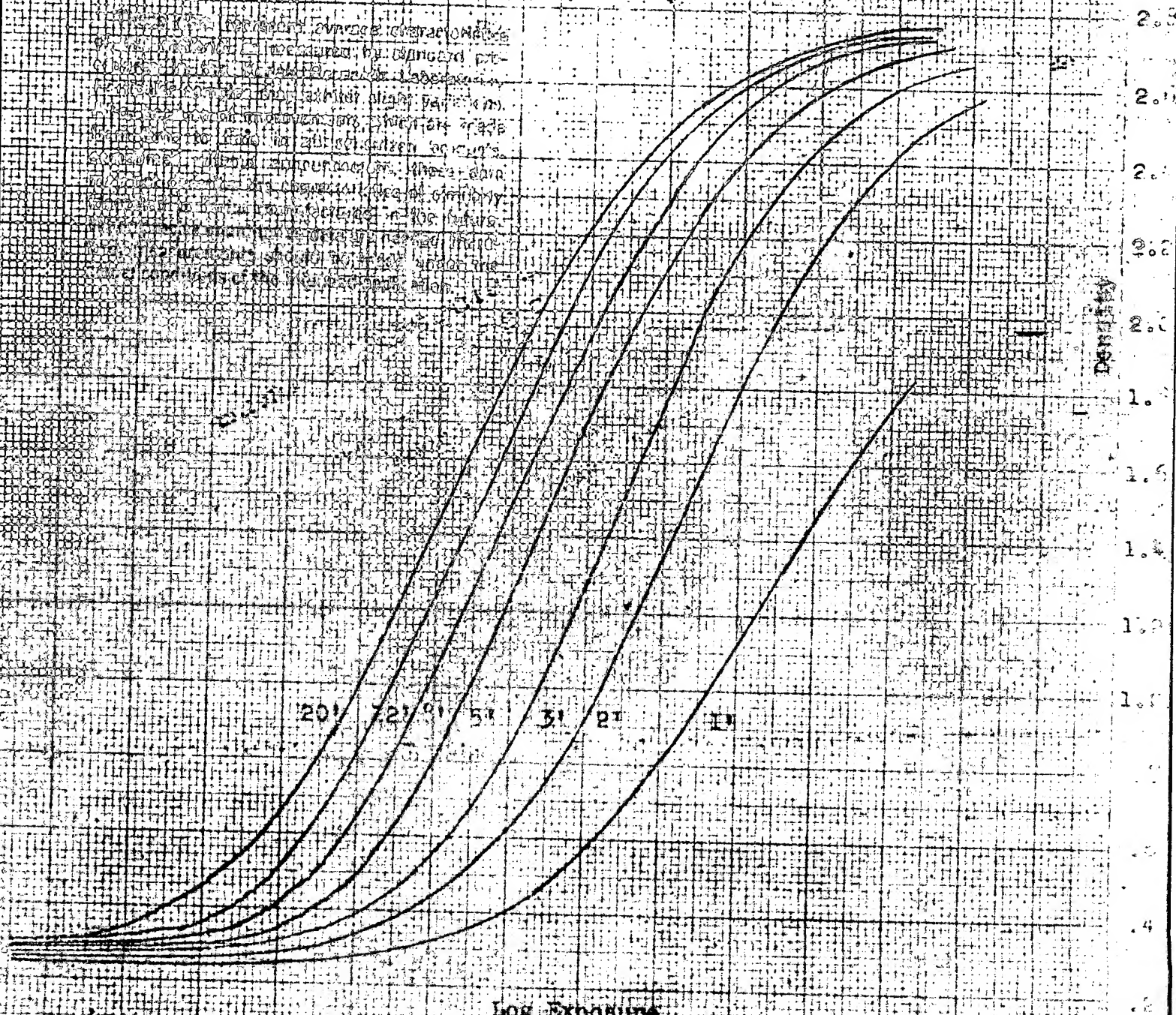
SS-243

Exposed to Sunlight

Developed in D-19, 60°F

Exposed in D-19, 60°F

The following curves represent the characteristic curves of the film when exposed to sunlight and developed in D-19 at 60°F. The curves are plotted on a graph of Density versus Log Exposure. The curves are labeled 1 through 5, representing different exposure times. The curves show that as the exposure time increases, the density of the film increases for a given log exposure.



1.0